

## A Friendly Introduction to Python for Absolute Beginners: Part 2 – Setup

Thank you for registering for this workshop.

**Before the workshop begins**, please follow the instructions below to prepare:

**IMPORTANT NOTE:** If you took the Python Part 1 workshop and have files on your [Jupyter Hub Account](#) already, you will notice that there is some overlap in the file names between that workshop and this one. You'll need to first login and download any files you want to keep (for example, you might want to save your PythonPart1WorkshopNotebook to save your work on activities and the final project). Then delete all of your workshop files and folders, so you can start with a fresh setup for part 2. To download or delete a file, put a checkmark next to it and then select the download button or the red delete icon as appropriate.

**For the Python Part 2 Setup, you will download the notebook, text files and photos we will be using for the workshop and upload them to your UofT Jupyter Hub Account following these steps:**

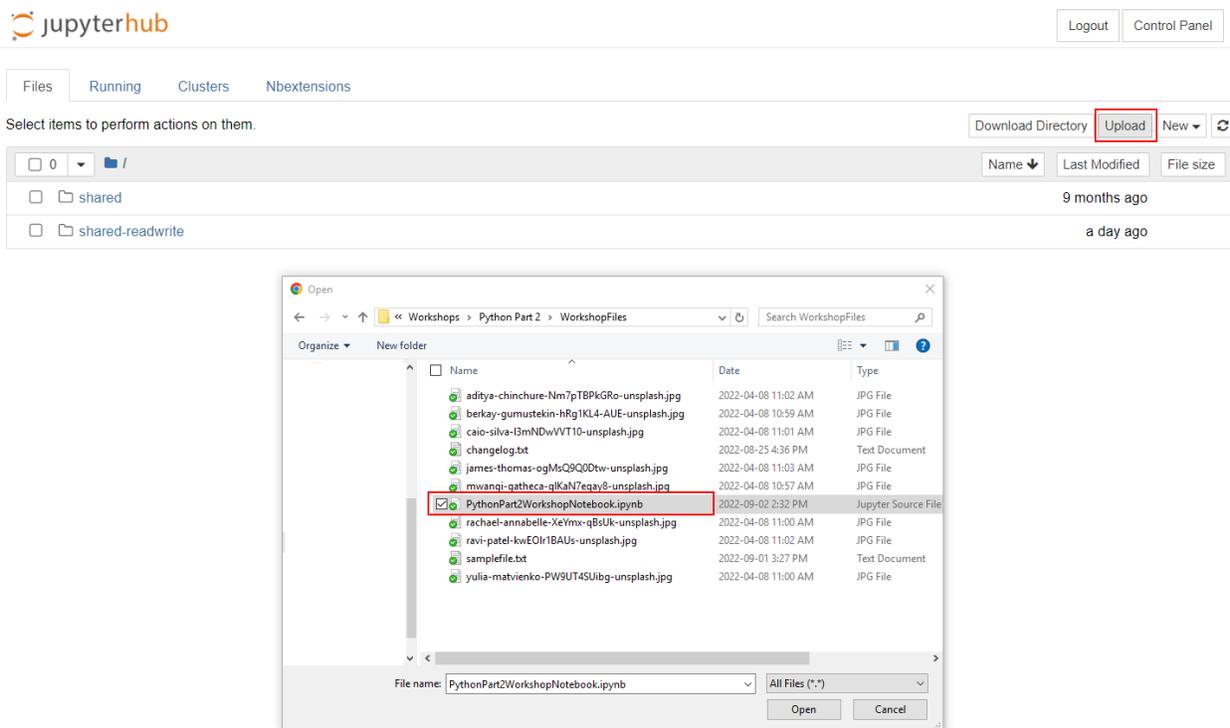
1. [Download a zip file](#) containing all the files you will need for the workshop.
2. Extract the files where you want to save them (it should create a WorkshopFiles folder). There should be 8 jpg files and one notebook file called "PythonPart2WorkshopNotebook.ipynb" in the folder. There should also be two text files called "samplefile.txt" and "changelog.txt".  
Note: Different computers have different setups. On a Mac, just double-click on the file to extract its files. On a PC, you might want to first install a great little program called [7-Zip](#) (if you don't already have it!). Then you should be able to right click on the zip file and select 7-Zip, then Extract Here to extract its files.

<input type="checkbox"/>	Name	Date	Type	Size
<input checked="" type="checkbox"/>	 aditya-chinchure-Nm7pTBpkGRo-unsplash.jpg	2022-04-08 11:02 AM	JPG File	135 ↓
<input checked="" type="checkbox"/>	 berkay-gumustekin-hRg1KL4-AUE-unsplash.jpg	2022-04-08 10:59 AM	JPG File	55 ↓
<input checked="" type="checkbox"/>	 caio-silva-l3mNDwVVT10-unsplash.jpg	2022-04-08 11:01 AM	JPG File	142 ↓
<input checked="" type="checkbox"/>	 changelog.txt	2022-08-25 4:36 PM	Text Document	0 ↓
<input checked="" type="checkbox"/>	 james-thomas-ogMsQ9Q0Dtw-unsplash.jpg	2022-04-08 11:03 AM	JPG File	105 ↓
<input checked="" type="checkbox"/>	 mwangi-gatheca-qlKaN7eqay8-unsplash.jpg	2022-04-08 10:57 AM	JPG File	115 ↓
<input checked="" type="checkbox"/>	 PythonPart2WorkshopNotebook.ipynb	2022-09-02 2:32 PM	Jupyter Source File	273 ↓
<input checked="" type="checkbox"/>	 rachael-annabelle-XeYmx-qBsUk-unsplash.jpg	2022-04-08 11:00 AM	JPG File	77 ↓
<input checked="" type="checkbox"/>	 ravi-patel-kwEOlr1BAUs-unsplash.jpg	2022-04-08 11:02 AM	JPG File	131 ↓
<input checked="" type="checkbox"/>	 samplefile.txt	2022-09-01 3:27 PM	Text Document	1 ↓
<input checked="" type="checkbox"/>	 yulia-matvienko-PW9UT4SUibg-unsplash.jpg	2022-04-08 11:00 AM	JPG File	154 ↓

- Go to <https://jupyter.utoronto.ca/hub/login> and log in using your UTORID credentials.



- Once logged in, click on *Upload* on the top right. Browse to your extracted workshop files, select the “PythonPart2WorkshopNotebook.ipynb” file, and click on *Open*.



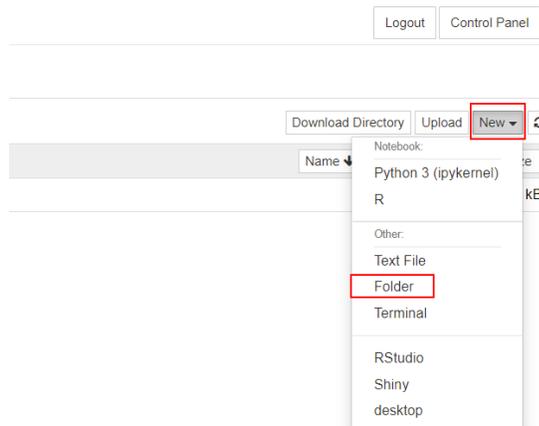
- Then click on the blue *Upload* button next to the file name to complete the upload.



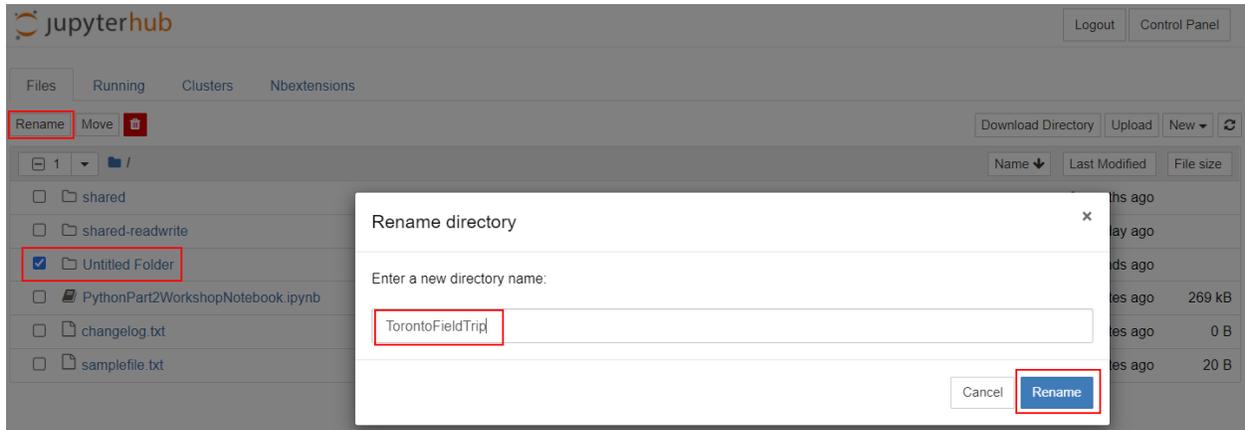
- Next, we need to upload the two text files, “samplefile.txt” and “changelog.txt” in the same manner. Click on *Upload*, select one of the text files, and click on *Open*. Then click on the blue *Upload* button for the file. Do that again for the other text file. You should now have your notebook file and two text files uploaded.



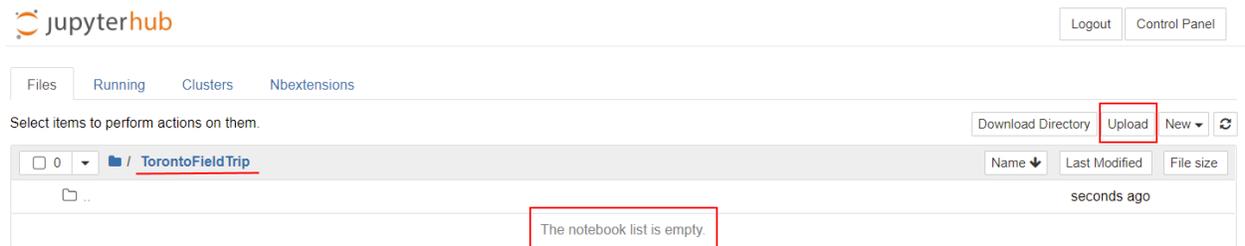
- Next, we need to create a new folder to hold all our photos and then upload them into the folder. Click on *New* on the top right (next to Upload) and select *Folder*. This should create a new Untitled Folder.



- Put a checkmark next to the *Untitled Folder*, and then click on *Rename* at the top left, just above your files and folders list. Type in “TorontoFieldTrip” (no spaces) and then click on the blue *Rename* button.



- Click on the *TorontoFieldTrip* folder to open it. It should be empty to start. Click on *Upload* on the top right again.



10. Browse to your extracted workshop files, and select all the photos (i.e., the .jpg files). You can upload each file one at a time, or you can highlight multiple files to upload them all at once. Then click on *Open*.

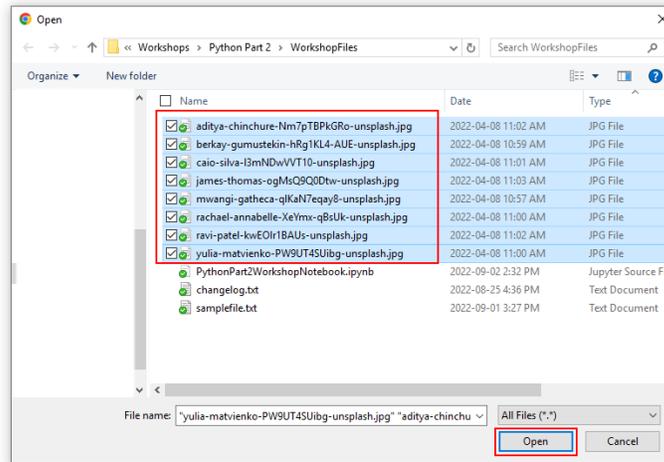
Files Running Clusters Nbextensions

Select items to perform actions on them. Download Directory Upload New ↻

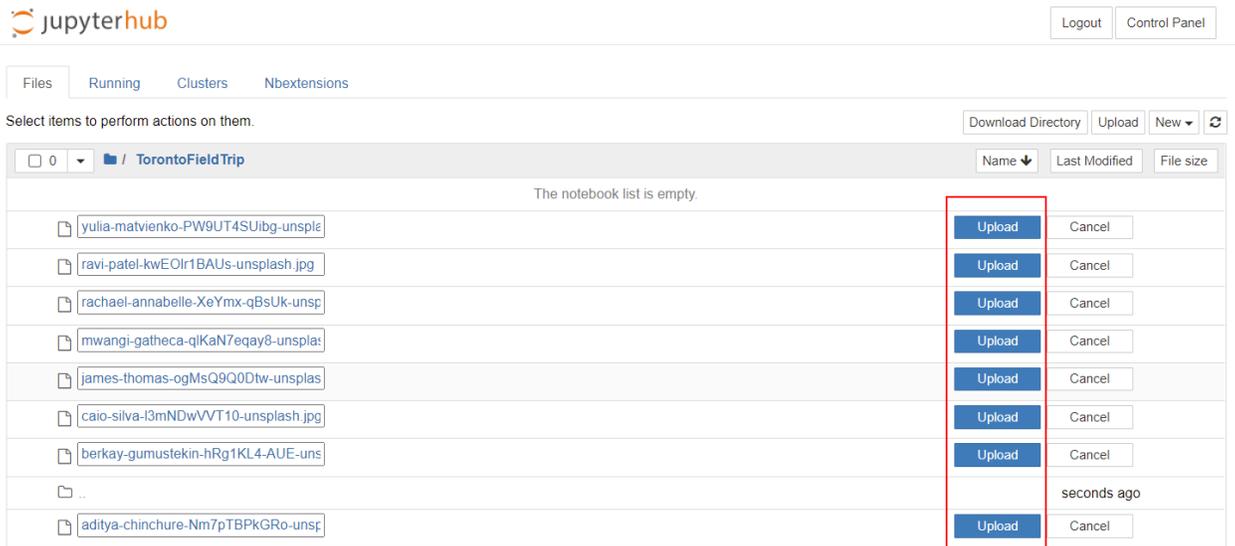
0 / TorontoFieldTrip Name Last Modified File size

seconds ago

The notebook list is empty.



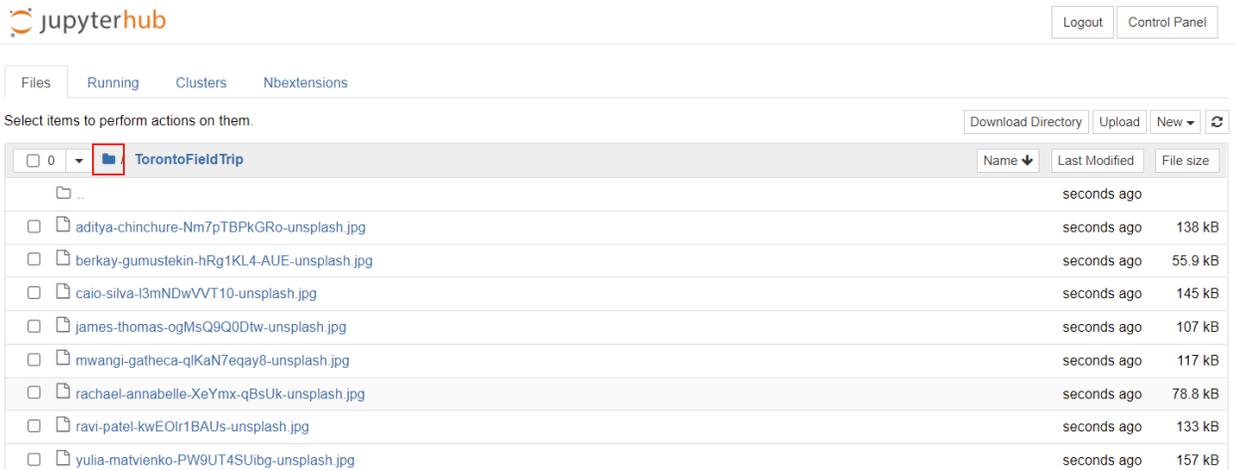
11. You will need to click on each blue *Upload* button next to each file name to complete the upload. Do that for all eight photo files.



The screenshot shows the JupyterHub interface with the 'TorontoFieldTrip' directory selected. The file list is as follows:

Name	Last Modified	File size
The notebook list is empty.		
<input type="checkbox"/> yulia-matvienko-PW9UT4SUIbg-unspl...		
<input type="checkbox"/> ravi-patel-kwEOlr1BAUs-unsplash.jpg		
<input type="checkbox"/> rachael-annabelle-XeYmx-qBsUK-unspl...		
<input type="checkbox"/> mwangi-gatheca-qIKaN7eqay8-unspl...		
<input type="checkbox"/> james-thomas-ogMsQ9Q0Dtw-unsplas		
<input type="checkbox"/> caio-silva-l3mNDwVVT10-unsplash.jpg		
<input type="checkbox"/> berkay-gumustekin-hRg1KL4-AUE-uns		
<input type="checkbox"/> ..	seconds ago	
<input type="checkbox"/> aditya-chinchure-Nm7pTBPkGRo-unspl...		

12. Click on the *blue file folder icon* above your list of files to go back to your main directory.



The screenshot shows the JupyterHub interface with the 'TorontoFieldTrip' directory selected. The file list is as follows:

Name	Last Modified	File size
<input type="checkbox"/> ..	seconds ago	
<input type="checkbox"/> aditya-chinchure-Nm7pTBPkGRo-unsplash.jpg	seconds ago	138 kB
<input type="checkbox"/> berkay-gumustekin-hRg1KL4-AUE-unsplash.jpg	seconds ago	55.9 kB
<input type="checkbox"/> caio-silva-l3mNDwVVT10-unsplash.jpg	seconds ago	145 kB
<input type="checkbox"/> james-thomas-ogMsQ9Q0Dtw-unsplash.jpg	seconds ago	107 kB
<input type="checkbox"/> mwangi-gatheca-qIKaN7eqay8-unsplash.jpg	seconds ago	117 kB
<input type="checkbox"/> rachael-annabelle-XeYmx-qBsUK-unsplash.jpg	seconds ago	78.8 kB
<input type="checkbox"/> ravi-patel-kwEOlr1BAUs-unsplash.jpg	seconds ago	133 kB
<input type="checkbox"/> yulia-matvienko-PW9UT4SUIbg-unsplash.jpg	seconds ago	157 kB

13. And that's it! You're ready for the workshop!

14. When the workshop begins, log into UofT's Jupyter Hub again and click on the "PythonPart2WorkshopNotebook.ipynb" file to open it. It should open up in a new browser tab.

The screenshot shows the Jupyter Hub interface. At the top left is the Jupyter Hub logo. On the top right are buttons for "Logout" and "Control Panel". Below the logo is a navigation bar with tabs for "Files", "Running", "Clusters", and "Nbextensions". The "Files" tab is active, showing a file browser. The file browser has a search bar and a "Select items to perform actions on them." prompt. Below this is a table of files and folders:

	Name	Last Modified	File size
<input type="checkbox"/>	shared	9 months ago	
<input type="checkbox"/>	shared-readwrite	a day ago	
<input type="checkbox"/>	TorontoFieldTrip	seconds ago	
<input type="checkbox"/>	PythonPart2WorkshopNotebook.ipynb	12 minutes ago	269 kB
<input type="checkbox"/>	changelog.txt	11 minutes ago	0 B
<input type="checkbox"/>	samplefile.txt	11 minutes ago	20 B

Below the file browser is a menu bar with options: File, Edit, View, Insert, Cell, Kernel, Widgets, Help. On the right of the menu bar are "Not Trusted" and "Python 3 (ipykernel)". The main content area shows the notebook content:

## A Friendly Introduction to Python for Absolute Beginners: Part 2

Kelly Schultz, Data Visualization Librarian  
Kara Handren, Data Librarian  
[mdl@library.utoronto.ca](mailto:mdl@library.utoronto.ca)

### Before we get started...

<https://jupyter.utoronto.ca/>

- Login with your UTORid
- If you haven't done so already, follow the setup instructions to download the workshop files: <https://uoft.me/python2setup>

### Welcome to our Workshop on Python!

This is a welcoming environment, for those who are absolute beginners to programming (as we once were)! Please feel free to ask any questions you have during this workshop. Remember, there are no stupid questions, and mistakes and error messages are an important part of learning any new skill. To learn to program, you need to be willing to play and experiment, and we are here to help you build a good foundation to do just that.

If you have any questions as we go, please don't hesitate to ask!

We will invite participants to share their answers to the exercises in this workshop, but won't be calling on anyone to participate.

15. We will be walking you through this file during the workshop, and you will be able to run code and complete activities from within this file.